IN THE CLAIMS

Please substitute the enclosed amended claims, for the claims presently on file.

WHAT IS CLAIMED IS:

VH) of the antibody.

- 1. [Cancelled] 2. [Cancelled] 3. [Cancelled] 4. [Cancelled] 5. [Cancelled] 6. [Cancelled] 7. [Cancelled] 8. [Cancelled] 9. [Cancelled] An antigen-binding fragment derived from a llama 10. [Withdrawn] antibody, said fragment comprising at least a part of the variable heavy domain (V_HH or VH) of the antibody. An antigen-binding fragment according to claim 10, 11. [Withdrawn] wherein said fragment comprises a complete variable heavy domain (VHH or
- 12. [Withdrawn] An antigen-binding fragment according to claim 11, wherein said fragment consists essentially of the variable heavy domain (V_HH or VH) of a llama antibody.

- 13. [Withdrawn] An antigen-binding fragment according to claim 12, wherein the antibody is selected from the antibody repertoire of a non-immunized lama.
- 14. [Withdrawn] An antigen-binding fragment according to claim 13, wherein the complementarity determining regions CDR1/H1, CDR2 and CDR3 of the variable heavy domain (V_HH or VH) are essentially free of cysteine residues.
- 15. [Withdrawn] An antigen-binding fragment according to claim 14, wherein the CDR1/H1 region of the variable heavy domain (V_HH or VH) is selected from the group consisting of:

GFTFSSYAMS	(SEQ ID NO: 85)
GFTFSSYYMS	(SEQ ID NO: 86)
GFTFDEHAIG	(SEQ ID NO: 87)
GFTVSSNHMT	(SEQ ID NO: 88)
GFTFSSYHMA	(SEQ ID NO: 89)
GFTFSRHQMS	(SEQ ID NO: 91)
GFTFRTYYMN	(SEQ ID NO: 92)
GFIFSSYAMS	(SEQ ID NO: 93)
GFTFSTYAMT	(SEQ ID NO: 95)
GFTFSGYAMS	(SEQ ID NO: 99)
GFAFSNYRMT	(SEQ ID NO: 100)
GFTFSRYAMS	(SEQ ID NO: 101)

16. [Withdrawn] An antigen-binding fragment according to claim 14, wherein the CDR2 region of the variable heavy domain (V_HH or VH) is selected from the group consisting of:

GIEGGGGITRYADSVKG	(SEQ ID NO: 102)
TIKPGGGSTYYADSVKG	(SEQ ID NO: 103)
TIDIGGGRTYADSVKG	(SEQ ID NO: 104)
RISSDORNTYYADSVKG	(SEQ ID NO: 105)

TINPGDGSTYYADSVKG	(SEQ ID NO: 106)
HIDTGGSTWYAASVKG	(SEQ ID NO: 107)
TINIDGSSTYYADSVRG	(SEQ ID NO: 109)
GINSFGGSKYYADSVKG	(SEQ ID NO: 110)
TINTSGRGTYYADSVKG	(SEQ ID NO: 112)
AINSGGGSTSYADSVKG	(SEQ ID NO: 113)
HIDTGGGSTWYAASVKG	(SEQ ID NO: 114)
DINSGGDSTRNADSVKG	(SEQ ID NO: 115)
SINSGGGSTYYADSVKG	(SEQ ID NO: 116)
RINSIGDRISYADSVKG	(SEQ ID NO: 117)

17. [Withdrawn] An antigen-binding fragment according to claim 14, wherein the CDR3 region of the variable heavy domain (V_HH or VH) is selected from the group consisting of:

AHGGYGAFGS	(SEQ ID NO: 119)
YSGGALDA	(SEQ ID NO: 122)
LSQGAMDY	(SEQ ID NO: 124)
IDRERAFTS	(SEQ ID NO: 127)
IDWERAFTS	(SEQ ID NO: 128)
QGYAGSYDY	(SEQ ID NO: 129)
LGVPGTFDY	(SEQ ID NO: 130)
TNRGIFDY	(SEQ ID NO: 131)
TPGSSGVYEY	(SEQ ID NO: 132)
TQTGSHDY	(SEQ ID NO: 133)
QVGTAYDY	(SEQ ID NO: 134)
RRGSSGVYEY	(SEQ ID NO: 135)

18. [Withdrawn] An antigen-binding fragment according to claim 14, wherein said fragment has at position 45 a residue of an amino acid other than cysteine.

- 19. [Withdrawn] An antigen-binding fragment according to claim 18, wherein amino acid residues of the VL interface of the variable heavy domain (V_HH or VH) are Gly at position 44, Leu, Phe, Pro, or Arg at position 45, and Trp, Tyr, or Phe at position 47.
- 20. [Withdrawn] An antigen-binding fragment according to claim 19, wherein amino acid residues at positions 44, 45 and 47 are Gly, Leu and Trp, respectively.
- 21. [Withdrawn] An antigen-binding fragment according to claim 19, wherein amino acid residues at positions 44, 45 and 47 are Gly, Pro and Trp, respectively.
- 22. [Withdrawn] An antigen-binding fragment according to claim 18, wherein amino acid residues of the VL interface of the variable heavy domain (V_HH or VH) are Glu at position 44, Arg at position 45, and Phe, IIe, Val, or Gly at position 47.
- 23. [Withdrawn] An antigen-binding fragment according to claim 18, wherein amino acid residues of the VL interface of the variable heavy domain (V_HH or VH) are Gln, Gly, Lys, Ala, or Asp at position 44, Arg at position 45, and Leu, Phe, or Trp at position 47.
- 24. [Withdrawn] An antigen-binding fragment according to claim 18, wherein amino acid residues at positions 6, 23, 74, 82a, 83, 84, 93 and 108 are Ala, Ala, Asn, Lys, Pro, Ala and Gln, respectively.
- 25. [Currently Amended] A camelid cDNA library comprising nucleotide sequences coding for antigen-binding fragments of conventional variable heavy domains of camelid VH-llama antibodies, said library obtained by performing the steps of:
 - (a) isolating lymphocytes from a biological sample obtained from a nonimmunized llama;

- (b) isolating total RNA from the lymphocytes;
- (c) reverse-transcribing the RNA and amplifying the cDNA sequences coding for the antigen-binding fragments;
- (d) cloning the amplified cDNA in a vector, and
- (e) recovering the obtained clones.
- 26. [Original] A cDNA library according to claim 25, wherein each antigen-binding fragment comprises at least a part of the variable heavy domain (V_HH or VH) of the antibody.
- 27. [Original] A cDNA library according to claim 26, wherein the antigenbinding fragment comprises a complete variable heavy domain (V_HH or VH) of the antibody.
- 28. [Original] A cDNA library according to claim 27, wherein the antigen-binding fragment consists essentially of the variable heavy domain (V_HH or VH) of a llama heavy chain antibody.
- 29. [Previously Presented] A cDNA library according to claim 28, wherein a vector employed therein is a filamentous bacteriophage.
- 30. [Original] A cDNA library according to claim 29, wherein the filamentous bacteriophage is fd-tet phage.
- 31. [Withdrawn] A process for the preparation of an antigen-binding fragment of a llama antibody, said fragment binding to a predetermined antigen, said process comprising the steps of:
 - (a) isolating lymphocytes from a biological sample obtained from a nonimmunized llama;
 - (b) isolating total RNA from the lymphocytes;
 - (c) reverse-transcribing and amplifying RNA sequences coding for antigen-binding fragments;

- (d) cloning the cDNA sequences so obtained into a cloning vector, said first vector capable of a surface display of the corresponding antigenbinding fragments;
- (e) subjecting the clones to antigen affinity selection and recovering clones having the desired affinity;
- (f) for the recovered clones, amplifying DNA sequences coding for antigen-binding fragments;
- (g) cloning the amplified DNA sequences into an expression vector;
- (h) transforming host cells with the expression vector under conditions allowing expression of DNA coding for antigen binding fragments; and
- (i) recovering the antibody fragments having the desired specificity.
- 32. [Withdrawn] A process according to claim 31, wherein the antigen-binding fragment comprises at least a part of the variable heavy domain (V_HH or VH) of the llama antibody.
- 33. [Withdrawn] A process according to claim 32, wherein the antigenbinding fragment comprises a complete variable heavy domain (V_HH or VH) of the llama antibody.
- 34. [Withdrawn] A process according to claim 33, wherein the antigenbinding fragment consists essentially of the variable heavy domain (V_HH or VH) of a llama antibody.
- 35. [Withdrawn] A process according to claim 34, wherein the cloning vector is selected from the group consisting of bacteriophages, bacteria, and yeasts.
- 36. [Withdrawn] A process according to claim 35, wherein the cloning vector is a filamentous bacteriophage.
- 37. [Withdrawn] A process according to claim 36, wherein the filamentous bacteriophage is fd-tet phage.

- 38. [Withdrawn] A process according to claim 31, wherein the expression vector is a plasmid, a phage, a virus, a YAC, or a cosmid.
- 39. [Withdrawn] A process according to claim 31, wherein the host cells are prokaryotic cells or eukaryotic cells.
- 40. [Withdrawn] A process according to claim 39, wherein the eukaryotic cells are selected from the group consisting of yeast cells, mammalian cells, plant cells and protozoan cells.